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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/507,321	06/28/2005	Yoshimaro Fujii	046124-5317	2802

55694 7590 06/25/2007
DRINKER BIDDLE & REATH (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER	
ULLAH, ELIAS	

ART UNIT	PAPER NUMBER
2812	

MAIL DATE	DELIVERY MODE
06/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



Office Action Summary

Application No.

10/507,321

Applicant(s)

FUJII ET AL.

Examiner

Elias Ullah

Art Unit

2812

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 June 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 13-55 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 19-23, 29-33 and 39-43 is/are allowed.
- 6) ☒ Claim(s) 13-18, 24-28, 34-38, 44-55 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 April 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date See Continuation Sheet.

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :11/09/2006,
6/20/06/4/20/06, 4/4/06, 2/22/06, 8/30/05, 5/4/2005.

/ . \ { }

DETAILED ACTION

This office action is in response to an application filed on 6/28/2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13, 17-18, 24-28, 34-38, 44-55 are rejected under 35 U.S.C. 102(b) as being anticipated by Srinivasan (US 5,211,805).

With respect to claims 13, 24-28, 34-38, 44-47 Srinivasan shows a laser processing method comprising the step of irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate with laser light while positioning a light-converging point at least within the substrate (col. 6, lines 1 –51), so as to form a modified region due to multiphoton absorption at least within the substrate, and causing the modified region to form a starting point region for cutting along a line along which the object should be cut in the object inside by a predetermined distance from a laser light incident face of the object.

With respect to claims 17-18, and 48-51 Srinivasan shows a substrate dividing method wherein a front face of the substrate is formed with a functional device; and wherein a rear face of the substrate is ground in the step of grinding the substrate; wherein the step of grinding the substrate includes a step of subjecting the rear face of the substrate to chemical etching (col. 4, lines 38-50).

With respect to claims 52-55 Srinivasan shows a substrate dividing method wherein the substrate is ground such that at least a part of a fracture generated from the starting point region for cutting acting as a start point in the thickness direction of the substrate remains in the substrate and modified region does not remain in the substrate in the step of grinding the substrate (col. 6, lines 9-25).

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Srinivasan as applied to claim 13 above, and further view of Yamazaki et al. (Pub. No.: US 2002/0158288).

With regard to claims 14-16 Srinivasan fails to show the substrate is a semiconductor substrate and the substrate is an insulating substrate, but Yamazaki et al. semiconductor substrate and the substrate is an insulating substrate [0168]. In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form a substrate with semiconductor substrate of Srinivasan because semiconductor substrate is used to form IC circuits.

Allowable Subject Matter

Claims 19-23, 29-33 and 39-43 allowed.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: with respect to claims 19-23, 29-33 and 39-43, there is no prior art available or obvious motivation to combine elements of prior art which teach the step of irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate with laser light while positioning a light converging point at least within the substrate under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light converging point and a pulse width of 1 micro second or less. The closest art (US 5,211,805) of the record teach peak power density 1×10^8 (W/cm²).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Ullah whose telephone number is (571) 272-1415. The examiner can normally be reached on weekdays, between 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL LEBENTRITT can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2812

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

E. Ullah,
June 19, 2007.

SCOTT B. GEYER
PRIMARY EXAMINER

S.B. Geyer 6/19/07

Search Notes

Application/Control No.

10/507,321

Examiner

Elias Ullah

Applicant(s)/Patent under
Reexamination

FUJII ET AL.

Art Unit

2812

SEARCHED

Class	Subclass	Date	Examiner
438	460	6/19/2007	EU

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
EAST database serach	6/19/2007	EU



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Bib Data Sheet

CONFIRMATION NO. 2802

SERIAL NUMBER 10/507,321	FILING OR 371(c) DATE 06/28/2005 RULE	CLASS 438	GROUP ART UNIT 2812	ATTORNEY DOCKET NO. 046124-5317
APPLICANTS Yoshimaro Fujii, Shizuoka, JAPAN; Fumitsugu Fukuyo, Shizuoka, JAPAN; Kenshi Fukumitsu, Shizuoka, JAPAN; Naoki Uchiyama, Shizuoka, JAPAN;				
** CONTINUING DATA ***** This application is a 371 of PCT/JP03/02669 03/06/2003				
** FOREIGN APPLICATIONS ***** JAPAN 2002-67289 03/12/2002				
Foreign Priority claimed <input checked="" type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance		STATE OR COUNTRY JAPAN	SHEETS DRAWING 21	TOTAL CLAIMS 12
Verified and Acknowledged Examiner's Signature: <i>[Signature]</i> Initials: <i>ESU</i>				INDEPENDENT CLAIMS 7
ADDRESS 55694				
TITLE Method for dicing substrate				
FILING FEE RECEIVED 7734	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	



INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

PTO Form 1449

Attorney Docket No.:

46884-5317

Serial No.:

10/507,321

Applicants:

Yoshimaro FUJII et al.

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Filing Date: June 28, 2005

Group Art Unit: 2812

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

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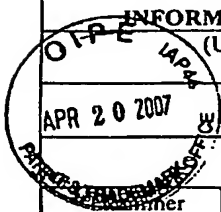
	Document Number	Date	Country	Class	Sub Class	<u>Translation</u> YES NO
/EU/	WO 2004/082006 A1	September 23, 2004	PCT	—	—	Abstract

Examiner /Elias Ullah/ (06/19/2007)

Date Considered 06/19/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449	Attorney Docket No.: 46884-5317	Serial No.: 10/507,321
	Applicants: Yoshimaro FUJII et al.	Page 1 of 2
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/EU/	2004/0002199	January 1, 2004	Fukuyo et al.	-	-	
	2005/0189330	September 1, 2005	Fukuyo et al.	-	-	
	2006/0040473	February 23, 2006	Fukuyo et al.	-	-	
	3,626,141	December 7, 1971	Daly, Richard T.	-	-	
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	5,230,184	July 27, 1993	Bukhman	-	-	
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	5,968,382	October 19, 1999	Matsumoto	-	-	
	5,976,392	November 2, 1999	Chen	-	-	
	6,175,096	January 16, 2001	Nielsen	-	-	
	6,325,855	December 4, 2001	Sillmon et al.	-	-	
	6,992,026	January 31, 2006	Fukuyo et al.	-	-	
	2002/0170896	November 21, 2002	Choo et al.	-	-	
/EU/	3,610,871	October 5, 1971	Lumley, Robert M.	-	-	

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						YES	NO
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	04-356942	December 10, 1992	Japan	—	—	Abstract	
	08-197271	August 6, 1996	Japan	—	—	Abstract	
	10-071483	March 17, 1998	Japan	—	—	Abstract	
	10-214997	August 11, 1998	Japan	—	—	Abstract	
	10-233373	September 2, 1998	Japan	—	—	Abstract	
	2000-104040	April 11, 2000	Japan	—	—	Abstract	
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F. Fumitsugu, "The Stealth Dicing Technologies and Their Applications," Journal of Japan Laser Processing Society, Vol. 12, No. 1, February 2005, pp. 17-23, with English translation.

R. Sugiura et al., "The Stealth Dicing Technologies and Their Applications," Proceedings of the 63rd Laser Materials Processing Conference, May 2005, pp. 115-123, with English abstract.

A. Ishii et al., "CO2 Laser Processing Technology, Nikkan Kogyo Publishing Production, December 21, 1992, pps. 63-65 (with partial English translation)

Journal of the Japan Society of Gridding Engineers, Vol. 47, No. 5, May 2003, pps. 229-231, English translation.

K. Hayashi, "Inner Glass Marking by Harmonics of Solid-state Laser," Proceedings of 45th Laser Materials Processing Conference, December 1998, pps. 23-28, with English abstract.

Examiner	/Elias Ullah/ (06/19/2007)	Date Considered	06/19/2007
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Attorney Docket No.: 46884-5317		Serial No.: 10/507,321	
PTO Form 1449				Applicants: Yoshimaro FUJII et al.		Page 2 of 2	
				Filing Date: June 28, 2005		Group Art Unit: 2812	
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/EU/		2000-219528	August 8, 2000	Japan			Abstract
		2001-127015	May 11, 2001	Japan			Abstract
		2001-250798	September 14, 2001	Japan			Abstract
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		2002-192370	July 10, 2002	Japan			Abstract
		2002-205181	July 23, 2002	Japan			Abstract
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		2003-001458	January 8, 2003	Japan			Abstract
		2005-047290	February 24, 2005	Japan			Abstract
		2005-313237	November 10, 2005	Japan			Abstract
		WO 01/90709 A1	November 29, 2001	PCT			Abstract
		WO 02/22301	March 21, 1002	PCT			Abstract
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The 6 th International Symposium on Laser Precision Microfabrication, April 2005, Symposium Program and Technical Digest, including F. Fukuyo et al., "Stealth Dicing Technologies and Their Applications," English abstract.							
Examiner		/Elias Ullah/ (06/19/2007)			Date Considered		
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Yoshimaro FUJII et al.

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Filing Date: June 28, 2005

Group Art Unit: 2812

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*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

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	JP 9-17831	January 17, 1997	JP			Abstract	
	JP 11-121517	April 30, 1999	JP			Abstract	
	JP 2002-192367	July 10, 2002	JP			Abstract	
	JP 4-188847	July 7, 1992	JP			Abstract	
	JP 7-263382	October 13, 1995	JP			Abstract	
	JP 9-263734	July 10, 1977	JP			Abstract	
	JP 2002-158276	May 31, 2002	JP			Abstract	
	JP 2006-135355	May 25, 2006	JP			Abstract	
	JP 2006-128723	May 18, 2006	JP			Abstract	

Examiner

/Elias Ullah/ (06/19/2007)

Date Considered

06/19/2007

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				Applicants: Yoshimaro FUJII et al.		Page 1 of 1	
				Filing Date: June 28, 2005		Group Art Unit: 2812	
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	61-121453	Sept. 6, 1986	Japan			X (abstract)	
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Examiner: /Elias Ullah/ (06/19/2007)				Date Considered: 06/19/2007			
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2812

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06/19/2007

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Attorney Docket No.: 046124-5317	Application No.: 10/507,321
PTO Form-1449		Applicant(s): Yoshimaro FUJII et al.	
		Filing Date: September 10, 2004	Group Art Unit: Unassigned

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	<i>Tooling Machine Series, Laser Machining</i> , published by Taiga Shuppan, Inc., Sept. 10, 1990, pps. 91-96
	<i>Electronic Material</i> , No. 9, on 2002, published by Kogyo Chousakai, pps. 17-21
	F. Fukuyo et al., "Stealth Dicing Technology for Ultra Thin Wafer", presented at 2003 ICEP (International Conference on Electronics Packaging), April 16-18, 2003, Tokyo, Japan

Examiner	/Elias Ullah/ (06/19/2007)	Date Considered	06/19/2007
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Application Number: 10/507,321

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	Applicant(s): Yoshimaro FUJII et al.	
	Filing Date: September 10, 2004	Group Art Unit: Unassigned

PAGE 2 OF 2

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	64-38209	February 8, 1989	Japan			Abstract	
	62-4341	January 10, 1987	Japan			Abstract	
	46-24989	July 19, 1971	Japan				X
	EP 863231	September 9, 1998	Europe				
	4-111800	April 13, 1992	Japan			X	
	2002-224878	August 13, 2002	Japan			Abstract	

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	T. Sano et al., "Evaluation of Processing Characteristics of Silicon With Picosecond Pulse Laser," Preprints of the National Meeting of Japan Welding Society, No. 66, April 2000, pp. 72-73
	K. Miura et al., "Formation of Photo-induced Structures in Glasses with Femtosecond Laser," Proceedings of 42nd Laser Materials Processing Conference, Nov. 1997, pp. 105-111.
	T. Miyazaki, "Laser Beam Machining Technology," Published by Sangyo-Tosho Inc., May 31, 1991, First Edition. pps. 9-10

Examiner	/Elias Ullah/ (06/19/2007)	Date Considered	06/19/2007
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Notice of References Cited	Application/Control No. 10/507,321	Applicant(s)/Patent Under Reexamination FUJII ET AL.	
	Examiner Elias Ullah	Art Unit 2812	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,211,805	05-1993	Srinivasan, Rangaswamy	216/58
*	B	US-2002/0158288	10-2002	Yamazaki et al.	257/343
	C	US-			
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	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

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